

# Comparisons of Job Characteristics

**Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 88

**Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Building and Construction	4.0	16.9	16.6	0	Current knowledge level may be sufficient
Mechanical	6.8	13.9	17.0	>	Current knowledge level is likely sufficient
Administration and Management	8.4	12.8	8.6	<<	Extensive education and/or training may be required
Mathematics	9.2	12.8	11.0	<	Expanded education and/or training may be required
Design	5.2	10.9	11.2	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	10.6	9.1	<	Expanded education and/or training may be required
Public Safety and Security	6.9	10.2	7.1	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	8.6	3.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 65

**Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Coordination	9.1	12.2	10.0	<	A higher skill level may be required
Management of Personnel Resources	6.9	11.6	7.2	<<	Extensive development of skills in this area may be required
Time Management	8.9	11.2	9.0	<	A higher skill level may be required

Persuasion	7.4	9.6	6.9	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.9	6.0	<	A higher skill level may be required
Management of Material Resources	3.7	5.6	3.0	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 71			
Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152) Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	13.4	11.2	<	Some improvement in abilities may be required
Oral Expression	12.4	13.3	10.2	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	12.1	10.9	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	11.2	9.8	<	Some improvement in abilities may be required
Near Vision	11.1	11.0	11.4	0	Current ability level may be sufficient
Written Comprehension	11.0	10.7	9.3	<	Some improvement in abilities may be required
Written Expression	9.8	10.6	7.7	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	10.4	9.6	0	Current ability level may be sufficient
Visualization	7.5	9.8	11.2	>	Current ability level is likely sufficient
Number Facility	6.3	8.2	6.3	<	Some improvement in abilities may be required
Time Sharing	6.6	7.9	7.8	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 66
<b>Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)</b> <b>Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)</b>		
Work Activities	Exclusivity of Activity	
Direct and coordinate activities of workers or staff	3	
Inspect project operations, or site to determine specification compliance	72	
Perform safety inspections in construction or resource extraction setting	46	
Plan or organize work	51	
Read blueprints	10	

Read specifications	23
Read tape measure	41
Read technical drawings	7
Understand construction specifications	53
Use hand or power tools	2

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 84

**Focus Occupation: Plumbers, Pipefitters, and Steamfitters (47-2152)**

**Associated Occupation: Supervisors of Construction and Extraction Workers (47-1011)**

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Cameras	2
Cleaning equipment	11
Compressors	9
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Cutting tools	18
Data management and query software	1
Dispensing tools	6
Earth moving machinery	11
Electrical measuring and testing equipment	7
Face and head protection	7
Fall protection	16
Forming tools	2
Holding and clamping tools	3
Humidity and moisture measuring instruments	15
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Marking tools	11
Measuring and layout tools	3
Metal bending and forming machinery	17
Passenger motor vehicles	13
Personal communication devices	2
Power generators	16

Power tools	2
Pressure measuring and control instruments	10
Product and material transport vehicles	13
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Temperature and heat measuring instruments	6
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.